

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in this application:

Listing of Claims:

Claim 1 (currently amended): A gas or liquid flow sensor, comprising:

a flexible substrate;

a flexible transducer formed on the substrate;

at least one flexible lead connecting the substrate to a mounting portion of the sensor:
and

first and second electrical contacts in electrical communication with the transducer;

wherein the substrate and the flexible lead are displaceable in a the presence of a stream of moving gas or liquid causing flexure of the transducer and changing an electrical value of the transducer.

Claim 2 (currently amended): A The sensor according to claim 1 wherein a protective covering covers at least a portion of the flexible transducer.

Claim 3 (currently amended): A The sensor according to claim 1 wherein the gas is air.

Claim 4 (canceled)

Claim 5 (currently amended): A The sensor according to according to claim 1 wherein the flexible transducer comprises a resistive ink.

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (currently amended): A The sensor according to according to claim 1 wherein the first and second electrical contacts are affixed to the a first side of the flexible substrate; and wherein a third electrical contact is affixed to the second side of the flexible substrate, said third electrical contact being in electrical communication with the first electrical contact.

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (currently amended): A The sensor according to claim 1, disposed in a device for detecting inhalation.

Claim 12 (cancelled)

Claim 13 (cancelled)

Claim 14 (currently amended): A The sensor according to according to claim 1 wherein at least one of the first and second electrical contacts are affixed to the mounting portion.

Claim 15 (currently amended): A The sensor according to according to claim 1 wherein the electrical value of the flexible transducer changes relative to the flexure of at least the flexible substrate.

Claim 16 (currently amended): A The sensor according to according to claim 1 wherein the flexible substrate substantially ~~retains~~ returns to an original orientation when a bending force impinging the flexible substrate is removed.

Claim 17 (currently amended): A The sensor according to according to claim 1 wherein the flexible substrate is made of polyimide.

Claim 18 (currently amended): A The sensor according to according to claim 1 wherein the sensor forms at least a portion of a one-way valve in a stream of moving gas.

Claim 19 (cancelled) to Claim 45 (canceled)

Claim 46 (currently amended): A The sensor according to claim 1 wherein the flexible transducer includes a portion formed on the flexible lead.

Claim 47 (currently amended): A The sensor according to claim 1 wherein the flexible substrate and the flexible lead are integral to one another.

Claim 48 (currently amended): A The sensor according to claim 1 wherein the electrical value of the flexible transducer changes relative to the flexure of the flexible substrate and the flexible lead.